## 4.6 Medians of a Triangle

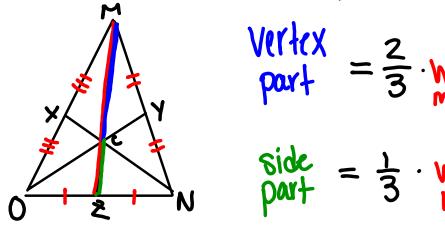
Objective: Identify medians in triangles.

Use properties of medians to find lengths.

A <u>median of a triangle</u> is a segment from a vertex to the midpoint of the opposite side.

The three medians of a triangle intersect at a point called the <u>centroid</u>.

Intersection of Medians of a Triangle Theorem: The medians of a triangle intersect at the centroid, a point that is two thirds of the distance from each vertex to the midpoint of the opposite side.



Checkpoint at the top of page 209.

side = 3 whole

$$ED = \frac{1}{3}(24)$$

$$KG = \frac{2}{3}(12)$$

$$\frac{3}{2}.20 = \frac{2}{3}PN.\frac{3}{2}$$

$$PQ = \frac{1}{3}(30)$$